No.



200000130

THE UNITED STAVIES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Seminis **Hegetable** Seeds, Inc.

Thereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN SUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY CTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BEAN, GARDEN

'Fury'

In Testimonn Mercut, I have hereunto set my hand and caused the seal of the Plant Unriety Protection Office to be affixed at the City of Washington, D.C. this thirteenth day of December, in the year two thousand two.

Au

DAAHOS

Acting Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Griculture

	U.S. DEPARTMENT OF ADRICULTURE AGRICULTURAL MARKETING SERVICE	FORM APPROVED - OMB NO. 0581-0 The following statements are made in accordance with the Privacy Act 1974 IS U.S.C. 552al and the Paperwork Reduction Act (PRA) of 1995.					
	SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE		Application is required in order to determine if a plant variety protect certificate is to be issued (7 U.S.C. 2421). Information is held confident				
	(Instructions and information collection burden staten		until certificate is issued (7 U.S.	C. 2426J.			
-	NAME OF APPLICANTISI has it is to appear on the Certificate!		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME			
	SEMINIS VEGETABLE SEEDS, INC.	VEGETABLE SEEDS, INC.		Fury			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)		ntryl	6. TELEPHONE (include area code)	FOR OFFICIAL USE ONLY			
	-37437 State Highway 16- Woodland. CA 95695- 2700 Camino del Sal		(530)666-0931				
2			6. FAX (include area code) (530)668-0219	F DATE			
	Oxnard dA 93030-7967			1/28/20			
, 7	7. GENUS AND SPECIES NAME 800		unice/)	FILING AND EXAMINATION FEE:			
	Phaseolus vulgaris	Legumino	sae	£ 2450°0			
8	. CROP KIND NAME (Common name)	7 7 7 7		1 DATE 1/24/2			
	Garden Bean			R C/ C/OU			
10	. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZA	ATION (corporation, partner	ship, association, etc.) [Common name]	C CERTIFICATION FEE:			
	CORPORATION			J. 6 30			
11	. IF INCORPORATED, GIVE STATE OF INCORPORATION		12. DATE OF INCORPORATION	E DATE			
	California		1-1942	3/22/02			
13	. NAME AND ADDRESS OF APPLICANT REPRESENTATIVEISI, IF ANY, TO SEE	IVE IN THIS APPLICATION	AND RECEIVE ALL PAPERS	14. TELEPHONE finclude area code!			
	Thomas Kramer			31317 11000			
	Seminis Vegetable Seeds			313174502			
*	Nude 54D			16. FAX finclude area codel			
	6702 DN Wageningen The Netherlands			3131745021			
16	CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED FOROW	instructions on reverse!		113021			
	e. 🖾 Exhibit A. Origin and Breeding History of the Variety						
	b. A Exhibit B. Statement of Distinctness						
	c. A Exhibit C. Objective Description of the Variety						
	d. Exhibit D. Additional Description of the Variety (Optional)						
	e. 🖾 Exhibit E. Stetement of the Basis of the Applicant's Ownership						
	1. Voucher Semple (2,500 viable untreated seeds or, for tuber propagate			ned in an approved public repository)			
	Voucher Sample (2,500 viable untrasted seeds or, for tuber propagate Filing and Examination Fee (62,460), made payable to "Tressurer of the content	he United States" (Mail to I	PVPOI				
17	1. Voucher Semple (2,500 viable untreated seeds or, for tuber propagate	he United States" (Mail to I	PVPOI A CLASS OF CERTIFIED SEED? (See Seco				
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EXHIBIT A

The Origin and Breeding History of "Fury" (XP 349)

"Fury" (XP 349) was developed by pedigree selection at Asgrow's Western Breeding Station (WBS) in Twin Falls, from a cross between Hystyle (Parent #1) and True Blue (Parent #2). Hystyle (Parent #1) was developed and marketed by the Harris Moran Seed Company. True Blue (Parent #2) was a variety developed and marketed first by the Ferry Morse Seed Co followed by the Harris Moran Seed Co.

06/10/91: A total of 15 plants were selected from the F2 population "R91 19802" that was planted from 62 grams of F1 Seed (R904001-2365).

05/29/92: A total of twelve F3 plants were selected from line R92 13857 based upon good horticultural qualities and intermediate brown spot scores. The brown spot recorded were recorded on line # 2172 in Sun Prairie, WI. Both experimental units were planted from seed of the fourth selection of line R91 19802.

01/22/93: One greenhouse pot identified as 2321 was planted from two seeds of the from the eighth selection of line R92 13857.

06/09/93: Forty-six seeds from greenhouse pot R93gh2321 was planted under the stake number R93 24462. The individual plants of R93 24462 were bulk harvested because the line was determined to be uniform and stable. Line R93 24462 was selected based on sieve size, an upright plant type, and an ability to set pods under heat.

05/27/94: Bulk seed of R93 24462 was planted under the stake number RWA 597. Crop RWA 597 was determined to be uniform and stable.

06/01/95: Seed of RWA 597 was planted under the stake number RWT 270. Crop number RWT 270 was determined to be uniform and stable.

"Fury" (XP 349) is uniform and stable within commercially acceptable limits. As is true with other garden beans, a small percentage of variants can occur within commercially acceptable limits for almost any characteristic during the course of repeated multiplication. However, no variants were observed during the two years in which "Fury" was observed for uniformity and stability.

(01/03/00)

EXHIBIT B

Novelty Statement Concerning "Fury"

"Fury" is a processing snap bean (cut style) variety developed by pedigree selection. To our knowledge, the variety that most closely resembles "Fury" is "Hystyle" (marketed and developed by the Harris Moran Seed Co.). The comparative characteristics that most readily distinguish the two varieties include but may not be limited to Seed Coat Color and Curly Top virus resistance. "Fury" has a white seed coat color and is susceptible to the curly top virus, "Hystyle" has a green seed coat color (persistent chlorophyll gene) and is resistant to the curly top virus. No statistical analysis is required for this comparison.

"Fury" is a variety that is resistant to Bacterial Brown Spot (*Pseudomonas syringae*, pv. *syringae*). "Fury" most notably differs from "True Blue", a variety developed and marketed by the Ferry Morse Seed Co., based upon "True Blue" susceptible reaction to Bacterial Brown Spot. No statistical analysis is required for this comparison.

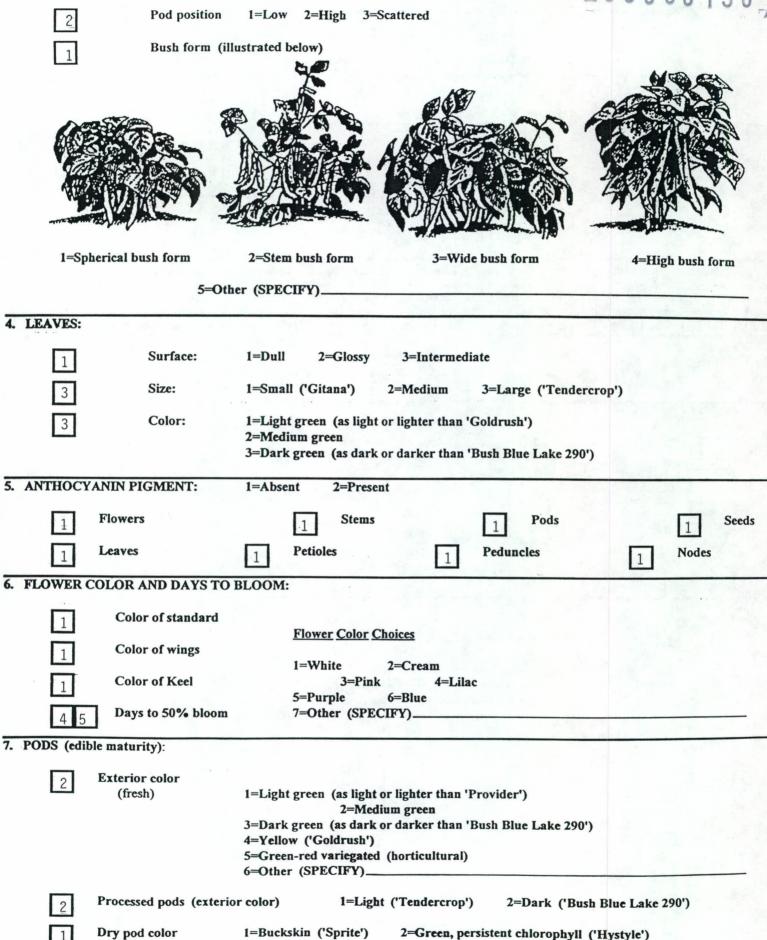
(01/03/00)

AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

GARDEN BEAN (Phaseolus vulgaris L.)

NAME OF APPLICANT(S)				FOR OFFICIAL USE ONLY		
			PV	PO NUMBER 0 0 0 0 0 1 3 0		
ADDRESS (Street and No. or R.F.D. No., City, State, and Zip Code)				ARIETY NAME		
				THE I HAME		
				Fury		
			TE	EMPORARY OR EXPERIMENTAL		
			DE	ESIGNATION		
				XP 349		
Place a zero in the first box (on a minimum of 100 plants.) should also be given. Royal	e.g.) when numbe Comparative data should be determin Horticultural Society or any recogniz	er is either 99 or less or ned from varieties ente ted color standard may	9 or less respectively. Data f red in the same trial. Measure be used to determine plant of	aracter of this variety in the boxes below. For quantitative plant characters should be based and the based sed data should be for SPACED PLANTS. Range colors; designate system used: Royal may delay progress of your application.		
1. TYPE:	Troube and the same and the sam			may do ny progress or your application.		
	1-0 1-	C 3 - El-	let 4 Domene			
11	1 = Garden 2=	Snap $3 = Fla$	geolet 4 = Romano			
2. MARKET MATUR	ITY:					
	Days to edible pods		Compariso	on varieties		
6 7			1='Tendercrop'	2='Kentucky Wonder'		
1 2 7 3	Heat units to edible	pods	3='Goldrush'	4='Slenderette'		
	Number of days ear	rlier than	3— Goldrush	4- Sienderette		
			5='Gitana'	6='Provider'		
	Same number of	days as 8	7='Bush Blue Lake	290' 8=Other (specify below)		
	Number of days late	er than		Hystyle		
3. PLANT:						
76	cm Spacing between	n plants in a row				
	Habit 1=	Determinate				
			ect stem and branches			
			h weak and prostrate stending habit with weak. I	em and branches long and twisted stem and branches		
0 3 4	cm Height			and thistee stem and the		
	cm Shorter than					
ш						
	Same height as					
01	cm Taller than	8	Use <u>Comparison</u> V	arieties from Section 2.		
3 6	cm Spread		>			
	cm Narrower than		Please make all 3 co Height and Spread.			
	Same width as	8				
	cm Wider than	一一ノ				



7. P	ODS: (edible	maturity): (continued)					20000	0 4 7 0	
	4	Cross section pod shap (middle of the pod)		lat 2=Hear	rt (Pear)	3=Round	2 0 0 0 0 4= Figure	U 1 3 U	
		(initialic of the poe)		I		100	(E)		
	1	Creaseback	1=Present	2=Absent					
	2	Pubescence	1=None ('Sl	enderette')	2=Sparse	3=Conside	rable ('Provider' o	r "Sprite")	
	2	Constriction (Interloc	ular cavitatio	on) 1=N	None 2=S	Slight 3	S=Deep		
	1 77	mm Spur length							
	1	Fiber 1=None	('Bush Blue	Lake 290')	2=Sparse	3=Consid	erable ('Sprite')		
	6	Number of seeds per p	ood						
	2	Suture string	1=Present	2=Absent					
	2	Seed development	1=Slow ('Bu	sh Blue Lake 29	0') 2=Me	edium	3=Fast ('Provider')	
	1	Machine harvest	1=Adapted	2=Not adap	ted				
		Percent	sieve size dist	ribution at optin	num maturity	for non-fla	t pods		
	4.76 to	5.76 to 7.		.34 to 8.34mm	8.34 to 9.5		.53 to 10.72mm	≥ 10.72mm	7
									1
		% 15	_%	%	3	3 %	53 %	%	ار
	3 Sieve	cm le	ength		mm width	_	total mm t	hickness	
	4 Sieve	ப	ength	ш	mm width	-	total mm t		
	5 Sieve	ш	ength		mm width	1 0			
	6 Sieve	114	ength	9.9	mm width		total mm t		
8. S	EED COLO	ш		ш					
	3	Seedcoat luster	1=Shiny	2=Dull 3=	=Semishiny	4=Varia	ble		
	1	Seedcoat	1=Monochro	ome 2=Poly	chrome				
	01	Primary color		Vhite 2=Yellov =Black 11=Ot			Brown 6=Pink	7=Red 8=Purp	ole
		Secondary color					6=Pink 7=Red		
	П	Seedcoat pattern	1=Solid 2	=Splashed 3=N	Nottled 4=S	Striped 5=	Flecked 6=Dotte	d	
	1	Hilar ring	1=Absent	2=Present					
		Hilar Ring Color					6=Pink 7=Red	8=Purple	

9. SEED SHAPE	E AND SIZE:
1	Hilum view 20 0000 130
	1=Elliptical 2=Oval 3=Round
2	Cross section 1=Elliptical 2=Oval 3=Cordate 4=Round
1	Side view 1=Oval to Oblong 2=Round 3=Reniform
3 0	gm/100 Seed
	gm/100 Seed lighter than
	gm/100 Seed same as
2	gm/100 Seed heavier than
10. DISEASE RE	CSISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant PLEASE SPECIFY RACE OR STRAIN WHERE APPROPRIATE
1	Anthracnose (Colletotrichum lindemuthianum)
	Race Alpha Race Beta X Race Gamma
	X Race Delta Race Epsilon Race Lambda
	Race Kappa specify race
1	Bean Rust (Uromyces appendiculatus)
	Race 38 Race 39 Race 40 Race 44
Ē	Race 45 Race 46 Race 49 Race 50
Ī	Race 51 Race 52 Race 54 Race 56
Ē	Race 59 specify race
20.	Powdery Mildew (Erysiphe polygoni)
0	Fusarium Root Rot (Fusarium solani f. sp. phaseoli)
	Pythium Root Rot (Pythium spp.)
	Aphanomyces Root Rot (Aphanomyces euteiches)
0	Rhizoctonia Root Rot (Rhizoctonia solani)
0	Pythium Blight or Aerial Pythium (Pythium ultimum)
0	Angular Leaf Spot (Isariopsis griseola)
	Bacterial Wilt (Corynebacterium flaccumfaciens subsp. flaccumfaciens)

10. DISEASE RES	ISTANCE: (continued) 20 0 0 0 1 3 0
2	Bacterial Brown Spot (Pseudomonas syringae pv. syringae)
	Common Bacterial Blight (Xanthomonas campestris pv. phaseoli)
	Halo blight (Pseudomanas syringae pv. phaseolicola)
	X Race 1 Race 2 Other (SPECIFY)
	Clover Yellow Vein Virus (CYVV)
2	Bean Common Mosaic Virus (BCMV)
	BV1 NY15 NL2 X NL3
	NL4 NL8 Florida Idaho
	Mexican Western Type
	Other (SPECIFY)
	Yellow Bean Mosaic Virus (BYMV)
	Curly Top Virus (BCTV) Hystyle is resistant
ä	Other (Specify Disease and Race or Strain)
11. INSECT RESI	STANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant
0	Aphid O Root Knot Nematode
	Leafhopper O Seed Corn Maggot
	Lygus Thrips
	Pod Borer 0 Weevils
H	Other (SPECIFY)
12. PHYSIOLOG	ICAL RESISTANCE: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 =
Tolerant	
0	Heat O Cold O Drought
0	Air Pollution Ozone
	Other (SPECIFY)
13. COMMENTS:	
	Blanched color of "Fury" is darker green that the blanched color of "Hystyle".

	THE CHIEF TO THE TAIL	
PORM APPROVED - OMB NO. 0681-00 The following statements are made in accordance with the Privacy Act 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995. Application is required in order to determine if a plant variety protectic certificate is to be issued (7 U.S.C. 2421). Information is held confidentiuntil certificate is Issued (7 U.S.C. 2426).		
2. TEMPORARY DESIGNATION	3. VARIETY NAME	
XP 349	Fury	
5. TELEPHONE (include area code)	6. FAX (include area code)	
7. PVPO NUMBER 2 0 0	(530)668-0219	
e block. If no, please explain.	X YES NO	
answer the following:	X YES NO	
original owner(s) a U.S. based comp	any?	
e):		
	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER XP 349 5. TELEPHONE (Include area code) (530)666-0931	

- If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national
 of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
- 3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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